## PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHORITY

Step 137-883 Republic of Korea    Date of mailing (day/month/year)   O6 JULY 2004 (06.07.2004)	To:					
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Date of mailing   (day/month/year)   06 JULY 2004 (06.07.2004)			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
Applicant's or agent's file reference PCT204-0036  PCT204-0036  International application No. PCT/KR2004/000559  International filing date (day/month/year)  16 MARCH 2004 (16.03.2004)  International Patent Classification (IPC) or both national classification and IPC  PCT H01L 21/66  Applicant  PHICOM CORPORATION et al  1. This opinion contains indications relating to the following items:  Box No. I Basis of the opinion  Box No. II Priority  Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  Box No. IV Lack of unity of invention  Box No. V Reasoned statement under Rule 43bis. 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement  Box No. VII Certain defects in the international application  Box No. VIII Certain observations on the international application  Box No. VIII Certain observations on the international application  FURTHER ACTION  If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66. bis(b) that written opinions of this International Searching Authority will not be so considered.  If this opinion is, as provided above, considered to be a written opinion of the PIEA, the applicant is invited to submit to the IPEA and the chosen IPEA has notified the leternational Bureau under Rule 66. bis(b) that written opinions of this International Searching Authority will not be so considered.  If this opinion is, as provided above, considered to be a written opinion of the PIEA, the applicant is invited to submit to the IPEA are appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the			ļ	(PCT Rule 43bis.1)		
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Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140

Authorized officer

MAENG, Sung Jae

Telephone No. 82-42-481-5727



## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/000559

<ol> <li>With regard to the language, this opinion has been established on the basis of the international application in the language which it was filed, unless otherwise indicated under this item.</li> <li>This opinion has been established on the basis of a translation from the original language into the following lang, which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).</li> <li>With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary.</li> </ol>	uage
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2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessar	
claimed invention, this opinion has been established on the basis of:	y to the
a. type of material	
a sequence listing	
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b. format of material	
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c. time of filing/furnishing	
contained in the international application as filed.	
filed together with the international application in computer readable form.	
furnished subsequently to this Authority for the purposes of search.	
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has bee	n
filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to	that
in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	
4. Additional comments:	
Additional comments.	•

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/000559

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Novelty (N)	Claims 4-7,9-14	YE
	Claims 1-3,8	 NO
Inventive step (IS)	Claims 4-7	YES
	Claims 9-14	NO
Industrial applicability (IA)	Claims 1-14	YES
	Claims NONE	NO

## 2. Citations and explanations:

The invention relates to a probe contactor with a bent portion in the middle section of the probe contactor and a method of making the same.

Following documents have been cited in the International Search Report:

D1: US 01/26166 A1 (Theodore A. Khoury, et al.) 04 October 2001

D2: KR 99-46171 A (INTERNATIONAL TECHNOLOGY CO., LTD.) 05 July 1999

D3: JP01-091537 A (KIMOTO GUNSEI) 04 April 2001

- 1. D1 discloses a probe contactor formed on the substrate through a photo lithography process. The contactor has a base portion vertically formed on the substrate, a horizontal portion, one end of which is formed on the base portion, and a contact portion formed on another end of the horizontal portion.
- 2. D2 discloses a round type elastic wire probe comprising a round portion for dispersing elastic force and a right-angled portion for determining an exact position and transferring press pressure upstream.
- 3. D3 disclose a contactor with the shape of the elastic deformation part which can select a relative positional relationship between an input part and an output part, and which meanders is arranged so as to have a set angle to the x-axis.

The invention claimed in claims 1-14 is considered to be industrial applicable.

The search has been revealed that the invention claimed in claims 1-3 and 8 is not novel since they are disclosed in documents D1-D2. However, Claims 4-7 and 9-14 are considered to novel.

Claims 9-14 are considered to be lack of inventive step over the admitted prior arts of combination of D1-D3. However, the documents D1-D3 does not suggest the special feature of an auxiliary probe to support the main probe. Claims 4-7 are considered to have inventive steps.